

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-7 (cancelled)

Claim 8 (new): A reciprocating piston compressor (100), in particular CO<sub>2</sub> compressor for vehicle air-conditioning units, comprising

a swivel disk (107) having an annular shape, that is rotated by a drive shaft (104) and is positioned at an adjustable angle with respect to said drive shaft (104),

said disk (107) connected in an articulated manner to sliding sleeve (108) that is selectively moved axially along said drive shaft (104) as well as to at least one supporting element (109) so disposed that it is spaced apart from said drive shaft (104) and rotates therewith,

a piston (106) comprises a joint arrangement (110) with which said swivel disk (107) is in sliding engagement,

said swivel disk (107) having a slot (115) disposed proximate its circumferential edge,

said slot (115) having a radial axis and a longer axis perpendicular to said radial axis with a portion of said supporting element (109) disposed within said slot (115),

whereby the articulated connection (116) between drive shaft (104) and swivel disk (107) serves substantially only to transmit torque, and said supporting element (109) serves substantially only to provide axial support to said piston (106) and hence to absorb the force exerted by the gas.

Claim 9 (new): The compressor according to Claim 8,

wherein said supporting element (109) is constructed in a spherical, cylindrical or barrel shape and is connected to said drive shaft (104) by way of a rod-like force-transmission element (114).

Claim 10 (new): The compressor according to Claim 9, wherein said force-transmission element (114) associated with said annular swivel disk (107) comprises a pin that projects away from the drive shaft (104) at an angle, so that when said swivel disk (107) is tilted at an intermediate position, said pin axis is oriented radially with respect to said swivel disk (107).

Claim 11 (new): A compressor according to Claim 8, wherein said supporting element (109) is disposed at the free end of an L-shaped force-transmitting element (114), one limb (126) of which extends approximately parallel to said drive shaft (104) and is supported axially against a bearing plate (127).